

New digital fabrication technologies enable the production, directly from 3D CAD files, of end-use parts with even very complex shapes, which are difficult or impossible to manufacture with traditional techniques.

Also, GRAFCOCAD S.r.l. productions are customizable for number of pieces, metals or metal alloys used and surface finishes, without constraints of minimum quantities, long lead times and high costs for molds realization, CNC milling or manual processes. This gives companies the possibility to outsource the production with economic and organizational advantages.



OPTIMIZED DESIGN
DIRECT METAL PRINTING MANUFACTURING
STAINLESS STEEL UNWELDED

GRAFCOCAD S.r.l. (Division Computer Aided Technologies) is a company of services and consultancy, with expertise in the production of complex parts in Direct Metal Printing, optimizing 3D models C.A.D. and preparation in order to maximize the advantages of new production technologies. In manufacturing, employs metals physical characteristics completely equivalent to the parts cast and milling.

GRAFCO C.A.T. SERVICE

<p>optimization</p>	<p>The C.A.D. 3D model is the first step. Our experience in the analysis of the shapes to be produced with the new technology, suggests solutions for optimizing, resulting in best cost/result.</p>
<p>innovation</p>	<p>The use of innovative technologies is itself a production value, encouraging the development of new products and the improvement of existing ones.</p>
<p>productivity</p>	<p>Productivity is improved by process automation and the ability to focus more time and resources to other aspects of production.</p>
<p>quality</p>	<p>The materials used, together with the manufacturing processes used, ensure a high quality of the final product which is free from impurities and imperfections.</p>
<p>affordability</p>	<p>The same technologies that ensure quality, are even cheaper because they use only the amount of resources (material-energy) which are strictly necessary to avoid waste and scrap.</p>
<p>competitiveness</p>	<p>The combination of these and other factors inherent in the use of new technologies, contribute to the improvement of competitiveness.</p>

METALS & ALLOY

STAINLESS STEEL
INCONEL
TITANIUM
TITANIUM-ALUMINIUM
NICKEL
CHROME-COBALT
IRON-CHROME
CARBIDE-TUNGSTEN
ALUMINIUM
BRONZE
BRASS

TREATMENTS

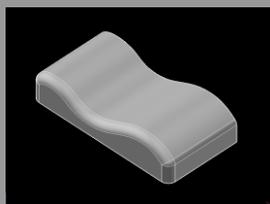
POLISHING
NICKELLING
BROWNING
GOLD PLATING
BRONZE PLATING
ZINC PLATING
PHOSPHATING
ANODIZING
POWDER COATING

STAGES OF PRODUCTION

1

3D CAD MODEL IMPORT

FROM C.A.D. FILE
FROM 3D SCAN
FROM SKETCH



2

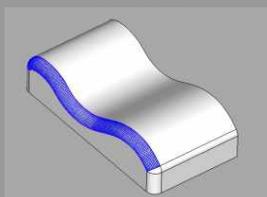
FEASIBILITY ANALYSIS
SUGGESTS FOR
OPTIMISATION
QUOTE



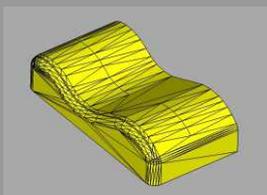
3

3D MODEL PREPARATION FOR MANUFACTURE

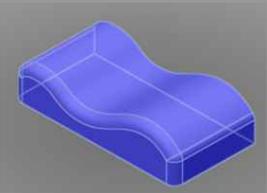
REPAIR



FIX



EXPORT

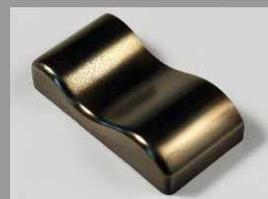


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PART DIRECT MANUFACTURING IN CHOSEN METAL

(see metal list)

420 STAINLESS STEEL



316 L STAINLESS STEEL



INCONEL



Grafco
Computer
Aided
C.A.D. s.r.l.
Technologies

GRAFCOCAD S.r.l. - Computer Aided Technologies - operating since 1996 in computerized technologies field, with experience gained through collaborations with leading companies in the industrial sector (aerospace and mechanical). Our administrative and operative offices are located in Finale Ligure - Savona, in a modern building situated in the industrial area not far from the motorway A10 Genoa-Ventimiglia.

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